

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended) A method for updating information on a client using
2 differences between old information residing on the client and new information ~~residing on~~
3 retrieved by a server, said method comprising:
4 requesting, by a client, information from a network;
5 determining whether the requested information is in storage on the client;
6 upon the determining that the requested information is in storage on the client,
7 designating the requested information in storage on the client as a first version of the
8 requested information;
9 retrieving the requested information by a server connected to the network;
10 designating the retrieved information as a second version of the requested
11 information;
12 ~~automatically~~ identifying differences between the first version of the requested
13 information ~~current information~~ residing on a the client and ~~new-related~~ the second version of
14 the requested information ~~residing on a~~ retrieved by the server;
15 generating a difference file on a the server using the identified differences;
16 transmitting the difference file to the client; ~~and~~
17 updating the ~~current information~~ first version of the requested information using the
18 difference file resulting in updated information on the client; and
19 retaining the second version of the requested information in storage at the server.

1 2. (Currently amended) A method as recited in claim 1, ~~further comprising the~~
2 determining comprises:
3 ~~requesting, by a client, information from a network; and~~
4 ~~retrieving the requested information, by a server connected to the network, and by the~~
5 client determining whether the first version of the requested information resides in storage at
6 the server.

1 3. (Currently amended) A method as recited in claim 2, wherein the
2 ~~automatically~~ identifying differences further comprises:
3 comparing ~~current~~ the second version of the requested information retrieved in the
4 retrieving step with the first version of the requested information residing in storage on the
5 server; and
6 determining automatically, by the server, whether ~~a previous version of the~~ second
7 version of the requested information is more current than the first version of the requested
8 information ~~current information~~ resides in storage on the client and server.

1 4. (Currently amended) A method as recited in claim 3 1, further comprising
2 saving information, by the server, the information corresponding to versions of information
3 sent by the server to clients, wherein each of the versions of information is correlated with
4 each of the clients to which it was sent.

1 5. (Currently amended) A method as recited in claim 3 1, ~~wherein~~ the requesting,
2 by a client, of information from a network, is performed by a user employing a patch-enabled
3 Web browser.

1 6. (Currently amended) A method as recited in claim 3 ~~1~~, ~~wherein~~ the requesting
2 of information by a user is from a public, global network of computers, employing a patch-
3 enabled Web browser.

1 7. (Currently amended) A method as recited in claim 3 ~~1~~, ~~wherein~~ the requesting
2 of information by a user is from a private or proprietary intranet, employing a patch-enabled
3 Web browser.

1 8. (Currently amended) A method as recited in claim 3 ~~1~~, ~~wherein~~ the client
2 connects to the network via a wireless communication method.

1 9. (Currently amended) A method as recited in claim 8, ~~wherein~~ a user on the
2 client executes an application related to geo-positioning system (GPS) technology and the
3 information requested is map data to be transferred to the user's wireless device.

1 10. (Currently amended) A method as recited in claim 8, ~~wherein~~ a user on the
2 client executes an application related to financial markets and the information requested is
3 financial data to be transferred to the user's wireless device.

1 11. (Currently amended) A method as recited in claim 10, ~~wherein~~ the user
2 requests data related to financial markets at unpredictable intervals and wherein the client
3 receives updated current information using the difference file customized to the precise
4 intervals of the requests.

1 12. (Currently amended) A method as recited in claim 2 ~~3~~, ~~wherein the new the~~
2 second version of the requested information resides on a content server, the second version of
3 the requested information is retrieved by a proxy server from the content server via a network,
4 and the comparing ~~current information~~ is performed by the proxy server.

1 13. (Currently amended) A method as recited in claim 12, ~~wherein the client and~~
2 the proxy server resides on the same computer processor.

1 14. (Currently amended) A method as recited in claim 2, ~~wherein the new~~
2 ~~information resides on a content server, the information is retrieved by a proxy server from~~
3 ~~the content server, and the comparing current information is performed by the proxy server,~~
4 ~~the content server and proxy server residing on the same computer processor~~ upon the
5 determining that the requested information is not in storage on the client, transmitting the
6 second version of the requested information to the client in response to the requesting by the
7 client.

1 15. (Currently amended) A method for effecting secure transmission of data to a
2 client using differences between old information residing on the client and new information
3 residing on a server, said method comprising:

4 requesting, by a client, information from a network, wherein a user on the client
5 desires secure transmission of the information;

6 retrieving the requested information, by a server connected to the network, via a
7 secure connection, the server also connected to the client;

8 saving transactional information, by the server, the transactional information
9 corresponding to versions of the requested information sent by the server to clients, ~~wherein~~

10 each of the versions of the requested information sent to the clients is correlated with each of
11 the clients to which it was sent, and the versions of the requested information are
12 differentiated from one another by a time at which each of the versions is placed in storage on
13 the client and the server;

14 ~~comparing current information, retrieved when retrieving requested information, with~~
15 ~~information residing in storage in the server;~~

16 determining ~~automatically~~, by the server, whether a previous one of the versions of the
17 ~~current~~ requested information resides in storage on the client and the server, and if not, then
18 sending the requested information as one of the versions of the requested information to the
19 client via a secure means; and otherwise

20 identifying differences between the previous version of the requested information and
21 one version of the requested information as retrieved in the retrieving;

22 generating a difference file on the server using the identified differences;

23 transmitting the difference file to the client; and

24 updating the ~~current~~ previous version of the requested information using the
25 difference file resulting in updated information on the client.

1 16. (Original) A method as recited in claim 15, wherein the requested information
2 is sent by the server to the client in encrypted form and the difference file generated is
3 transmitted in unencrypted form.

1 17. (Currently amended) A method of efficient transmission to and from a
2 submersible vehicle, using differences between old information residing on a recipient and
3 new information residing on a sender, said method comprising:

4 requesting, by a recipient, information from the sender, wherein one of the recipient
5 and sender resides on a submersible vehicle with limited bandwidth or limited accessibility to
6 transmission;

7 retrieving the requested information, by a server connected to the sender, the server
8 also connected to the recipient via a wireless transmission means;

9 saving transactional information, by the server, the transactional information
10 corresponding to versions of the requested information sent by the sender to the recipients,
11 ~~wherein~~ each of the version of the requested information sent to the recipients is correlated
12 with each of the recipients to which it was sent;

13 ~~comparing current information, retrieved when retrieving the requested information,~~
14 ~~with information residing in storage in the server;~~

15 determining ~~automatically~~, by the server, whether a previous one of the versions of the
16 ~~current~~ requested information resides in storage on the recipient and the server, and if not,
17 then sending the requested information as one of the versions of the requested information to
18 the recipient as a whole, and otherwise

19 identifying differences between the previous version of the requested information and
20 the one version as retrieved in the retrieving;

21 generating a difference file on the server using the identified differences;

22 transmitting the difference file to the recipient; and

23 updating the ~~current~~ the previous version of the requested information using the
24 difference file resulting in updated information on the recipient.

1 18. (Original) A method as recited in claim 17, wherein the recipient is a client
2 residing on the submersible vehicle and the server does not reside on the submersible vehicle
3 and is directly connected to the sender.

1 19. (Original) A method as recited in claim 15, wherein the sender resides on the
2 submersible vehicle and is connected to the server and the client does not reside on the
3 submersible vehicle.

1 20. (Original) A method as recited in claim 17, wherein the sender and recipient
2 are interchangeable depending on the direction of the data flow to/from the submersible
3 vehicle and for a specific transmission, thereby effecting bi-directional patching of data.

1 21. (Currently amended) A system for updating information on a client using
2 patches or differences between old information residing on the client and new information
3 residing on the server, comprising:

4 at least one patch enabled server connectable to a network;

5 at least one client connectable to a network through the patch enabled server, the
6 patch enabled server connected to the client and enabled to send requests to the network,
7 when connected thereto, for information based on requests for information received by the
8 server from a patch enabled browser on the client,

9 the patch enabled server comprising:

10 a data store and enabling routine for storing information, the information
11 correlating requested information retrieved from the network with at least one client recipient
12 of the requested information retrieved from the network; and

13 a patch generator for automatically identifying differences in versions of
14 requested information and generating difference files if it is determined by analyzing the
15 information that a previous version of the client requested information resides in storage on
16 the server and the client, and transmitting the difference file to the client, the versions of the

17 requested information are differentiated from one another by a time at which each of the
18 versions is placed in storage on the server.

1 22. (Original) A system as recited in claim 21, wherein the patch enabled browser
2 on the client further comprises:
3 a patch identifier for identifying whether received information is a binary difference
4 file (patch); and
5 a patch executor which executes the binary patch received from the server and updates
6 the current information on the client using the binary difference file resulting in updated
7 information on the client.

1 23. (Original) A system as recited in claim 22, wherein the client is connected to
2 the server via a wireless transmission path.

1 24. (Original) A system as recited in claim 23, wherein the client is on a
2 submersible vehicle.

1 25. (Original) A system as recited in claim 22, wherein the patch executor is a
2 plug-in module of a patch enabled Web browser.

1 26. (Original) A system as recited in claim 21, wherein the requested information
2 is related to financial markets.

1 27. (Original) A system as recited in claim 21, wherein the information stored in
2 the data store is transactional information to correlate requested information sent by the patch
3 enabled server and received by a client with temporal and recipient identification information.

1 28. (Original) A system as recited in claim 21, wherein the patch enabled server
2 distinguishes temporal and recipient identifying information associated with requested
3 information sent by the patch enabled server and received by at least one of a plurality of
4 client recipients.

1 29. (Currently amended) A system for effecting secure transmissions of data to a
2 client using differences between old information residing on the client and new information
3 residing on the server, comprising:

4 at least one patch enabled server connectable to a network;

5 at least one client connectable to a network through the patch enabled server, the
6 patch enabled server connected to the client and enabled to send requests to the network for
7 information based on requests for information received by the server from a patch enabled
8 browser on the client,

9 wherein a patch enabled server comprises:

10 a data store and enabling routine for storing transactional information, the
11 transactional information correlating requested information retrieved from the network with
12 one or more client recipients of the requested information retrieved from the network; and

13 a patch generator for automatically identifying differences in versions of
14 requested information and generating difference files if it is determined by analyzing the
15 transactional information that a previous version of the client requested information resides in
16 storage on the server and the client, and transmitting the difference file to the client, but if a

17 previous version of the client requested information does not reside on both the server and
18 client, then securing the non-patch information to be sent to the client, the versions of the
19 requested information are differentiated from one another by a time at which each of the
20 versions is placed in storage on the server.

1 30. (Original) A system as recited in claim 29, wherein the non-patch information
2 is secured by using encryption.

1 31. (Currently amended) A system for updating information on a client using
2 differences between old information residing on the client and new information residing on
3 the server, comprising:
4 a network of computers supporting client/server technology;
5 a content source connected to the network, the content source having a unique
6 identifier allowing content to be accessed across the network;
7 a server connected to the network providing a conduit for users, the server processing
8 requests by users for retrieving data from a content source;
9 a client connected to the network through the server for providing requested content to
10 a user,
11 wherein the server sends requests to the network for information based on requests for
12 information received by the server from the client, and
13 wherein the server comprises:
14 a data store and enabling routine for storing transactional information, the
15 transactional information correlating requested content retrieved from the network with at
16 least one client recipients of the requested content retrieved from the network; and

17 a patch generator for automatically identifying differences in versions of
18 requested content and generating difference files if it is determined by analyzing the
19 transactional information that a previous version of the client requested content resides in
20 storage on the server and the client, and transmitting the difference file to the client, the
21 versions of the requested information are differentiated from one another by a time at which
22 each of the versions is placed in storage on the server.

1 32. (Original) A system as recited in claim 31, wherein the client further
2 comprises:
3 a patch identifier for identifying whether received information is a binary
4 difference file (patch); and
5 a patch executer for executing the binary patch received from the server and
6 for updating the current content on the client using the binary difference file resulting in
7 updated content on the client.

1 33. (Original) A system as recited in claim 32, wherein the client is connected to
2 the network via a wireless transmission path.